



UTAH HIGHWAY PATROL VEHICLE SAFETY SECTION

5500 West Amelia Earhart Drive, Suite #360
Salt Lake City, Utah 84116
Telephone: (801) 965-4889
FAX: (801) 322-1817
<http://safetyinspections.utah.gov>



NEWSLETTER

09 / #02

FEBRUARY, 2009

2009-2010 SAFETY INSPECTION MANUALS

We now have the 2009-2010 Safety Inspection Manuals available on our Safety Inspection Website for downloads to their desktop or to print off a hardcopy. The hardcopies of the manuals are currently being printed and will be available for sale in about two weeks from our Safety Inspection Office for \$10.00. We have a number of stations that have already sent in their orders for the new manual. Those orders will be filled once we receive the printed copies.

2009 ADMINISTRATIVE RULE AMENDMENTS

R714-158-6. Inspector Training and Testing.

(B)(1) Every educational institution will be required to have the same tools that each station is required to have for each individual vehicle type that they will be instructing.

(E) Every student that takes the 16 hour certification course, is required to attend all sixteen hours of the course, regardless of what vehicle type they are applying for. If they miss any portion of the course, they will be required to make up that missed portion before being allowed to take the certification test.

(F) If an educational institute offers a motorcycle only course, then the student must attend the entire portion of that course that is covered under the curriculum set forth by the department before being allowed to take the certification test.

R714-158-7. General Safety Inspection Program Requirements.

(A)(3)(b) Certificates and stickers shall be filled out completely to include the name and address of the registered owner. They must be completed on the same date that the vehicle inspection was conducted.

(A)(7) Inspectors will not be added to a station on the Admin Console, without a member of the station's management first contacting our office. This management contact may be done in person, by phone or on a station's letterhead with an official signature.

R714-158-9. Certificates, Stickers, and Inspection Reports.

(A)(2) Each on-line station may be allowed to purchase a maximum of two books of certificates that are only to be used as a backup to the on-line program when the system is down.

(A)(8) Entering a safety inspection certificate number into an outside agency computer system for the purpose of printing a certificate is prohibited.

(A)(9) All 'ATV' inspections shall be conducted on a department approved ATV paper certificate, or on the on-line program under the 'ATV' vehicle type.

R714-158-11. Grounds for Denial, Suspension, or Revocation of License or Certification.

(A)(3) Providing any false information on a station or inspector application.

For a complete list of our Administrative Rules, you will be able to find them in the back of the Safety Inspection Manual or on our Safety Inspection Website.

RECENT CASE RESULTS IN CRIMINAL CHARGES FILED

We had a recent case in Utah County that was generated from a citizen complaint. This case involved the misuse of the Utah Interactive Web-based Inspection Program. There were two subjects who, over time, performed around 300 on-line safety inspections for the public under another Safety Inspection Station's account. The details of this case will not be disclosed, since there are still court proceedings pending. We can tell you that the two subjects have both been charged with 8 counts of 3rd degree Felony Forgery charges. This is a perfect example of why it is so important that each station contact us as soon as an employee leaves or enters your employment. Please do not contact Utah Interactive to update any changes to your inspector lists, as they do not currently have access to this system. All changes must go through the Safety Inspection Office. If you have any questions concerning your station's account, please contact us at (801)965-4889 during normal business hours.

STATION VISIT INFORMATION

Our Safety Inspection Troopers should be visiting all of their assigned stations periodically. During their station visits, we would like them to gain feedback whether positive or negative on the direction our program is headed. They are also tasked with updating your station's account by verifying the station name, address, inspection site and that all of the station's required tools are present. Our Troopers will also be checking to make sure that the station's license and every inspector's certification card is displayed in a prominent location. Along with the certification cards, they will be verifying the status of every inspector's driver license. Any station that is missing tools and any inspector that has an invalid driver license will have their safety inspection status placed to 'Unqualified', until the station obtains the required tool or until the inspector can provide a valid driver license. There will be no reinstatement fee required to enter back into a 'Valid' status from being placed under the 'Unqualified' status. Our main goal is to ensure that every station and inspector remains active through all of the requirements that they were originally expected to meet. If you have any questions or concerns about how a station visit is conducted, please contact our Safety Inspection Office at (801)965-4889.

2009 FUEL SYSTEM CRITERIA

Our Safety Inspection Staff has finished the new criteria for the 'Fuel System' sections in both the Passenger Vehicle/Light Truck and Heavy Duty Truck manuals. These amendments have now been approved by our Safety Inspection Advisory Council and will go into effect immediately. All of the new amendments will give each inspector more detail on what to look for when an alternative fuel vehicle is presented for a safety inspection. We feel that this new criteria will increase the safety for both the consumer and the other members of the motoring public. Our staff has taken a number of phone calls concerning the EPA and Air Resource Board (ARB) certification requirement. The concern that most callers have brought to our attention, is that there is no proof that the non-certified conversions are unsafe and because of this requirement, there are a large number of citizens that are not going to be able to pass a state safety inspection. Our main focus is public safety and we feel that there should be guidelines followed when it comes to members of the public altering their OEM fuel systems to Natural Gas conversions. Currently, the guidelines that are in place and have been thoroughly tested for the purpose of safety are the Environmental Protection Agency (EPA) and Air Resource Board (ARB) certifications. Our department is currently putting together a training DVD which will outline how inspections of these systems should be done. After it is completed, we will make it available on our Safety Inspection Website and to all safety inspection stations. The following contains the new criteria for inspecting the fuel system of passenger vehicle/light truck and heavy truck vehicles.

FUEL SYSTEM

- The fuel system includes the fuel tank, the fuel pump and the necessary piping to carry the fuel from the tank to the carburetor or injection system.
- All motor fuel tanks attached to the vehicle fuel system must be secured and meet the standards as listed in FMVSS 571-301.
- National Fire Protection Association Pamphlet 52 can be purchased from the following website:
<http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=52>

A. DIESEL / GASOLINE / LPG / NATURAL GAS

1. Check the fuel tank, fuel tank support straps, filler tube (rubber, plastic, metal), tube clamps, fuel tank vent hoses or tubes, filler housing drain, overflow tube, fuel filler cap and conversion kit installations.

a. **REJECT** when:

- 1) There is fuel leakage at any point or escaping gases are detected in the system (Odor will be present).
- 2) The fuel tank filler cap / cover is missing.
- 3) Any part of the system is not securely fastened, supported or shielded to prevent damage from road hazards, slippage, loosening or rotations. (NFPA 52, 6.3) SEE NOTE BELOW

**NOTE: Make sure that the fuel tank is not exposed or unprotected. Tanks that are installed under a vehicle may not be mounted ahead of the front axle or behind the point of attachment of the rear bumper. Tanks shall be protected from physical damage using the vehicle structure, valve protectors or a suitable plastic or metal shield. A tank that is installed in the bed of a truck must be protected with a shield over the top and down any exposed sides. Shields shall be installed in a manner that prevents direct contact between the shield and the fuel tank. The shield shall also prevent the trapping of solid materials or liquids between the shield and tank that could damage the container or its coating. (NFPA 52, 6.3) SEE SHIELD SAMPLES BELOW.*



Metal Protective Shield Sample



Plastic Protective Shield Sample

- 4) There is any physical damage to a fuel system component.
- 5) There is any installation hazard present which may cause a potential hazard during a collision.

**NOTE: Fuel tanks shall be permitted to be located within, below, or above the driver or passenger compartment, provided all connections to the container(s) are external to, or sealed and vented from, these compartments. All tanks that are installed in the passenger compartment shall be vented to the outside of the vehicle with a boot or heavy plastic bag and shall not exit into a wheel well. Every tank and fuel line shall be mounted and braced away from the exhaust system and supported to minimize vibration and to protect against damage, corrosion, or breakage. No part of the fuel tank or its appurtenances shall protrude beyond the sides or top of any vehicle where the tanks can be struck or punctured. (NFPA 52, 6.3) SEE VENT SAMPLES AHEAD.*



Plastic Bag Vent Samples

- 6) Vehicle is not labeled in accordance with National Fire Protection Association 52.

NOTE: Each CNG vehicle shall be identified with a weather-resistant, diamond-shaped label located on an exterior vertical surface or near-vertical surface on the lower right rear of the vehicle (e.g., on the trunk lid of a vehicle so equipped, but not on the bumper of any vehicle) inboard from any other markings. The label shall be a minimum of 4.72 inches long by 3.27 inches high. Where a manual valve is used the valve location shall be accessible and indicated with the words "MANUAL SHUTOFF VALVE". (NFPA 52, 6.11.1) SEE CNG EXTERIOR AND MANUAL SHUTOFF LABEL SAMPLES BELOW.



CNG manual shut-off label sample



CNG exterior label sample

NOTE: A vehicle equipped with a CNG fuel system shall bear a label readily visible and located in the engine compartment with identification as a CNG-fueled vehicle, system service pressure, installer's name or company, container retest date(s) or expiration date and the total container water volume in gallons. There shall also be a label located at the fueling connection receptacle with identification as a CNG-fueled vehicle, system working pressure and container retest date(s) or expiration date. If both labels are located in one of the above areas, the labels shall be permitted to be combined into a single label. (NFPA 52, 6.11)



Engine Compartment Label Sample



Fueling Receptacle Sample



UTAH HIGHWAY PATROL VEHICLE SAFETY SECTION

5500 West Amelia Earhart Drive, Suite #360
Salt Lake City, Utah 84116
Telephone: (801) 965-4889
FAX: (801) 322-1817
<http://safetyinspections.utah.gov>



NEWSLETTER

FEBRUARY, 2009

09 / #02

Fuel System Continued

- 7) A CNG fuel container is not current on its certification in accordance with FMVSS 304. SEE NOTE AND SAMPLE DISPLAYED.

NOTE: Each CNG fuel container shall be permanently labeled and should be visually inspected after a motor vehicle accident or fire and at least every 36 months or 36,000 miles, whichever ever comes first, for damage and deterioration. (S7.4, FMVSS 304)

NOTE: To locate a CNG certified inspector for a tank certification, please refer vehicle owner to the following website:

<http://webext.csa.ca/cng/cngmain.asp#searchinspector>



CNG tank certification label sample

***NOTE:** LPG and LNG leaks may accumulate at ground level. Use extreme caution when around these systems. At no time shall an inspector attempt to conduct maintenance or alterations to any alternative fuel system, unless that inspector is currently certified as an EPA alternative fuel conversion installer. Working around these systems is extremely dangerous and requires extensive training.

- 8) Alternative fuel Conversion kit is not Environmental Protection Agency (EPA) or California Air Resource Board (CARB) certified.

SEE CERTIFICATION SAMPLES BELOW.



Conversion kit certification sample



Manufacturer certification sample

NOTE: If a kit certification label is not attached or present with the vehicle, it shall be the vehicle owner's responsibility to provide the proper documentation in proving that the conversion kit is EPA or CARB certified.

To locate a specific vehicles certificate of conformity, please go to the following website. <http://epa.gov/dis/>

EXCEPTION: Any vehicle model year 2003 or older that had an alternative fuel conversion kit installed by any of the following companies will not be held to the Environmental Protection Agency (EPA) or California Air Resource Board (CARB) certification requirement as they meet the standards that were in effect at the time of install. This list contains the different businesses that were registered with EPA, to perform alternative fuel conversions. The alternative fuel vehicle will likely have a conversion kit label present with the company name, date of install, vehicle identification number and vehicle mileage somewhere on the vehicle. These installs were all done prior to 2003.

CONVERSION KIT INSTALLERS

Ferrellgas- Phoenix, AZ
Bowgen Fuel Systems- Springfield, MO
Fleet Propane- Houston, TX
SUPro Energy- El Paso, TX
Jack Harrison & Assoc.- San Antonio, TX
Green's Blue Flame- Houston, TX
Electronic Fuel Control- Forest Park, GA
Tri-Star Conversions- Mesa, AZ
Intelligas- Whitehouse, NJ
Northwest Propane Gas Company- Dallas, TX
AFS Automotive- Austin, TX
Special Auto Services- Clintondale, NY
Questar Gas Company- Salt Lake City, UT
Motion Technology- Salt Lake City, UT
NESC Williams- Zanesville, OH
Applet Propane- Three Rivers, TX
Arizona Alternative Fuel- Tucson, AZ
Special Auto Services- Clintondale, NY
AZ Star- Phoenix, AZ
Propane Equipment- Tinton Falls, NJ
Gallahar Research- Phoenix, AZ
Technocarb Equipment- Abbotsford, BC Canada
American Pride RV Center- Mesa, AZ
Exodus Energy- Phoenix, AZ
AZ Conversions- Sun City, AZ
SNO-Motion Solutions- Salt Lake City, UT

CONVERSION KIT MANUFACTURERS

Baytech- Los Altos, CA
BAF Technologies- Dallas, TX
Eco Fuel Systems- Langley, BC Canada
ANGI- Milton, WI
Oklahoma Bi-Fuel- Tulsa, OK
MoGas- Burnaby, BC
DRV- Tulsa, OK
GFI- Kitchner, ON
IMPCO- Santa Ana, CA
Technocarb- Abbotsford, BC
Cambell-Parnell USA- Phoenix, AZ

OEM FACTORY VEHICLES

Ford- Contour, Crown Victoria, Pickups, Vans
Chrysler- Vans, Mini-vans, trucks (all dedicated)
General Motors- Cavalier, Trucks, Vans
Honda- Civic GX (1999-2009)
Toyota- Camry (2000)

AGENCY ACTIONS

<u>Station/Inspector Name</u>	<u>Agency Action</u>	<u>Disposition</u>
Just Inc. #2282	15-Day Suspension	Upheld
Jordan Dahl #16775	15-Day Suspension	Upheld
Jaymie Newland #20367	15-Day Suspension	Upheld
Travis Powell #22198	15-Day Suspension	Upheld
Computune #7219	15-Day Suspension	Upheld
Oil Spout #2158	Revocation	Upheld
Ryan Devenish #12720	Revocation	Upheld
Rond D. Butterfield #18777	15-Day Suspension	Upheld
Kings Muffler #7267	15-Day Suspension	Upheld
Jorge Salas #22583	15-Day Suspension	Upheld
Corey S. Dennis #13814	Indefinite Suspension	Upheld
Jonathan K. Nicol #14557	Indefinite Suspension	Upheld
Nathan Hodges #16513	15-Day Suspension	Upheld
Kyle Robinson #21275	15-Day Suspension	Upheld
Jonathan E. Jimenez #20862	Indefinite Suspension	Upheld
Vern Barker #14297	15-Day Suspension	Upheld
Bryce Lister #22152	180-Day Suspension	Upheld
Certified Tire & Srvc. #7063	60-Day Suspension	Upheld
Richard W. Hight #21348	15-Day Suspension	Upheld
Zach Davis #18334	30-Day Suspension	Upheld
Darren Purser #21118	15-Day Suspension	Upheld
Clinton Hoyt #12379	Revocation	Upheld
Sandra Ferguson #22584	15-Day Suspension	Upheld
Steve's Tesoro #1663	15-Day Suspension	Upheld
Steven E. Mitchell #3673	15-Day Suspension	Upheld
Gustavo Moreno #17104	15-Day Suspension	Upheld
Michael E. Hagan #19425	15-Day Suspension	Upheld
West Auto Repair #2228	Revocation	Upheld
Joseph W. West #8965	Revocation	Upheld
Joe T. Christensen #14433	Revocation	Upheld
Joshua Peters #22282	15-Day Suspension	Upheld

AGENCY ACTIONS

<u>Station/Inspector Name</u>	<u>Agency Action</u>	<u>Disposition</u>
Holleys 66 #1375	60-Day Suspension	Upheld
Brad Holley #20739	15-Day Suspension	Upheld
Tyson C. Tolbert #16559	7-Day Suspension	Upheld
Bryce Ames #20819	15-Day Suspension	Upheld
Jonathan Hanson #21911	15-Day Suspension	Upheld
Geoffrey A. Deuel #20779	15-Day Suspension	Upheld
A&P Tire & Oil #5304	15-Day Suspension	Upheld
Candence Perry #19466	30-Day Suspension	Upheld
Peter Bazianis #21677	7-Day Suspension	Upheld
Robert J. Anderson #15450	15-Day Suspension	Upheld
Dustin Hill #19496	Indefinite Suspension	Upheld
Joshua Fischer #20127	20-Day Suspension	Upheld
Speed Lube & Car Wash #6831	15-Day Suspension	Upheld
Cheyne C. McDonald #13491	15-Day Suspension	Upheld



CHECK EXPIRATION DATES OF
PLATEBRAKE TESTER CERTIFICATIONS

PLACE STATION LICENSES AND INSPECTOR
CARDS IN A CONSPICUOUS AREA.

CHECK EXPIRATION DATES OF INSPECTOR
CERTIFICATION CARDS.

